

**REMARKS**

Claims 1-42 are pending in this application. By this Amendment, claims 1, 3-9, 11-15, 22, 24-30, and 32-36 are amended. Reconsideration based on the above amendments and following remarks is respectfully requested.

Applicant appreciates the Office Action's indication that claims 6-8, 11-15, 24, 25, 27-29 and 32-36 include allowable subject matter.

**I. The Claims Define Patentable Subject Matter**

The Office Action rejects claims 1, 2, 5, 9, 10, 16-23, 26, 30, 31 and 37-42 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 5,099,910 to Walpole et al. in view of the admitted prior art.

The Office Action asserts on page 2 that Walpole discloses the formation of a micro-tunnel heat sink for cooling electro-optic devices. However, the Office Action asserts on page 3 that Walpole is silent with respect to a mask. The Office Action asserts on page 3 that the Background section of the specification of the above-identified application states that the "mask used at high-temperature and the manufacture of an electro-luminescent device is known, and the cooling of the mask is known in a conventional method." Thus, the Office Action asserts that "it would have been obvious to one of ordinary skill in the art at the time of the invention to have used the process taught by Walpole to apply to a mask because a process taught by Walpole is applied to electro-optic devices, and the steps in which a mask is applied would also be in steps in which there is a high heat flux, which is the application to which the invention made by Walpole is applied as improvement of cooling." Applicant respectfully disagrees with this assertion.

Instead, the combination of the heat sink of Walpole and a well known mask makes a structure in which the heat sink is attached to the mask. The present application, however, has a flow path between the frame and the screen plate. Specifically, the screen plate, which

has penetrating holes arranged to form a mask pattern, is a part of a heat sink. Thus, this feature is not disclosed in the applied references.

Further, none of the applied references suggest, disclose or teach "the penetrating holes set to perpendicularly connect holes formed in opposite surfaces of the screen plate," as recited in independent claims 1 and 9, and "the penetrating holes set to be tapered," as recited in independent claims 22 and 30.

## II. Conclusion

In view of the foregoing, Applicant respectfully submits that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-42 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,



James A. Oliff  
Registration No. 27,075

Randi B. Isaacs  
Registration No. 56,046

JAO:RBI/eks

Date: October 27, 2004

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
--